

Gencore version 5.1.6					
Copyright (c) 1993 - 2004 Compugen Ltd.					
M Protein - Protein search, using sw model					
run on:	August 25, 2004, 12:58:44 ; Search time 128 Seconds (without alignments)	1305.152 Million cell updates/sec			
title:	US-09-530-2333-2				
effect score:	2851				
sequence:	1 MKPTSGPEEARQPSDIRVF.....CAVTKTLSASHRTCYLVSQL 531				
coring table:	BLOSUM62				
Gapop:	10.0 , Gapext 0.5				
searched:	1297172 seqs, 314612898 residues				
total number of hits satisfying chosen parameters:	1297172				
minimum DB seq length:	0				
maximum DB seq length:	2000000000				
post-processing:	Minimum Match 0% Maximum Match 100% Listing First 45 summaries				
database :	Published Applications AA: 1: /cgn2_6_ptodata/2/pubpaas/US07_PUBCOMB.pep: 2: /cgn2_6_ptodata/2/pubpaas/PCT_NEW_PUB.pep: 3: /cgn2_6_ptodata/2/pubpaas/US05_NEW_PUB.pep: 4: /cgn2_6_ptodata/2/pubpaas/US06_PUBCOMB.pep: 5: /cgn2_6_ptodata/2/pubpaas/US07_PUBCOMB.pep: 6: /cgn2_6_ptodata/2/pubpaas/PCTCNS_PUBCOMB.pep: 7: /cgn2_6_ptodata/2/pubpaas/US08_NEW_PUB.pep: 8: /cgn2_6_ptodata/2/pubpaas/US08_PUBCOMB.pep: 9: /cgn2_6_ptodata/2/pubpaas/US09_A_PUBCOMB.pep: 10: /cgn2_6_ptodata/2/pubpaas/US09_B_PUBCOMB.pep: 11: /cgn2_6_ptodata/2/pubpaas/US09_C_PUBCOMB.pep: 12: /cgn2_6_ptodata/2/pubpaas/US09_NEW_PUB.pep: 13: /cgn2_6_ptodata/2/pubpaas/US0A_PUBCOMB.pep: 14: /cgn2_6_ptodata/2/pubpaas/US10_B_PUBCOMB.pep: 15: /cgn2_6_ptodata/2/pubpaas/US10_C_PUBCOMB.pep: 16: /cgn2_6_ptodata/2/pubpaas/US10_NEW_PUB.pep: 17: /cgn2_6_ptodata/2/pubpaas/US60_NEW_PUB.pep: 18: /cgn2_6_ptodata/2/pubpaas/US60_PUBCOMB.pep: *				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.					
SUMMARIES					
result No.	Score	Match	Length	DB ID	Description
1	2851	100.0	531	15	US-10-258-073-4
2	2833	99.4	531	14	US-10-345-680-56
3	2833	99.4	531	15	US-10-366-288-44
4	2706	94.9	549	9	US-09-983-204-6
5	2598	91.1	543	9	US-09-983-204-5
6	2481	87.0	518	9	US-09-983-204-4
7	2447	85.8	533	15	US-10-258-073-8
8	1369	48.0	512	15	US-10-258-073-6
9	1365	47.9	512	9	US-09-983-204-14
10	1365	47.9	512	15	US-10-258-073-2
11	1329	46.6	526	9	US-09-983-204-13
12	1315	46.4	514	12	US-09-772-180A-104
13	1180	41.4	539	10	US-09-772-180A-8
14	1180	41.4	539	15	US-10-295-027-290
15	1125	41.2	520	10	US-09-222-180A-104
16	1134.5	39.8	587	10	US-09-772-180A-4
17	407.5	14.3	669	9	US-10-133-573-4
18	407.5	14.3	669	13	US-10-133-157-4
19	407.5	14.3	669	14	US-10-097-340-278
20	407.5	14.3	669	14	US-10-373-801-280
21	407.5	14.3	669	14	US-10-133-573-6
22	407	14.3	669	14	US-10-097-340-280
23	373.5	13.1	640	13	US-10-133-573-5
24	373.5	13.1	640	13	US-10-133-157-5
25	371.5	13.0	640	9	US-09-983-204-16
26	350	12.3	649	12	US-10-133-573-6
27	350	12.3	649	13	US-10-133-157-6
28	347	12.2	64	15	US-10-258-073-20
29	344.5	12.1	515	9	US-09-983-204-13
30	341	12.0	649	9	US-09-983-204-17
31	335.5	11.8	150	9	US-09-860-670-108
32	335.5	11.8	150	15	US-10-227-646-108
33	328	11.5	103	10	US-09-772-180A-6
34	320.5	11.2	704	15	US-10-104-047-378
35	315.5	11.1	638	9	US-09-983-204-18
36	315.5	11.1	638	12	US-10-133-573-8
37	315.5	11.1	638	13	US-10-133-157-8
38	249	8.7	46	15	US-10-258-073-26
39	243	8.5	374	15	US-10-104-047-378
40	213	7.5	555	14	US-10-166-651-27
41	194	6.8	114	14	US-10-106-98-6921
42	193.5	6.8	907	15	US-10-369-493-6677
43	187	6.6	90	9	US-09-864-761-45578
44	156.5	5.5	96	9	US-09-864-761-47039
45	143.5	5.0	46	12	US-10-276-774-1604

RESULT 2
US-10-345-680-56
; Sequence 56, Application US/10345680
; Publication No. US200301483941
; GENERAL INFORMATION:
; - APPLICANT: Millennium Pharmaceuticals, Inc.
; Silos-Santiago, Immaculada
; Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; 641, 260, 55089, 21407, 40326, 46656, 65553, 302, 323,
; 6405, 13237, 13601, 18926, 31, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MP102-012PIRMN.0KNI
; CURRENT APPLICATION NUMBER: US710/345,680
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/350,500
; PRIOR FILING DATE: 2002-02-18
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 56
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-56

RESULT 3
US-10-366-288-44
; Sequence 44, Application US/10366288
; Publication No. US20030216288A1
; GENERAL INFORMATION:
; - APPLICANT: Powell, Douglas
; Weich, Nadine S
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; AIDS AND HIV-RELATED DISORDERS USING 1414, 1481, 1553,
; 14021, 1720, 1683, 1552, 1682, 1675, 12825, 9952, 5816,
; 10002, 1611, 14324, 126, 270, 312, 167, 326, 18926,
; TITLE OF INVENTION: 6747, 1793, 1784 OR 2045 MOLECULES
; FILE REFERENCE: MP102-025PIRNONNM
; CURRENT APPLICATION NUMBER: US 10/366,288
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: 60/357,391
; PRIOR FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: 60/380,249
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/391,306
; PRIOR FILING DATE: 2002-06-15
; PRIOR APPLICATION NUMBER: 60/406,297
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 60/412,007
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/417,508
; PRIOR FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/432,318
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 44
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-366-288-44

Query Match 99.4%; Score 2833; DB 14; Length 531;
Best Local Similarity 99.2%; Pred. No. 3.2e-252; Indels 0; Gaps 0;
Matches 527; Conservative 2; Mismatches 2; Length 531;
Number of SEQ ID NOS: 66
Software: FastSEQ for Windows Version 4.0
SEQ ID NO: 56
LENGTH: 531
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-345-680-56

Query Match 99.4%; Score 2833; DB 15; Length 531;
Best Local Similarity 99.2%; Pred. No. 3.2e-252; Indels 0; Gaps 0;
Matches 527; Conservative 2; Mismatches 2; Length 531;
Number of SEQ ID NOS: 66
Software: FastSEQ for Windows Version 4.0
SEQ ID NO: 44
LENGTH: 531
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-366-288-44

Query Match 99.4%; Score 2833; DB 15; Length 531;

Best Local Similarity 99.2%; Pred: No. 3.2e-252;保守性 527; Mismatches 2; Indels 0; Gaps 0; Matches 527; Qy 1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGMWAAAVALSVATFLYQ 60 Db 1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGMWAAAVALSVATFLYQ 60 Qy 61 AERVYYREFHQTALDERESHLRVPAVTLCNINP1P1RSRSLTENDLHWAGSALLGDP 120 Db 61 AERVYYREFHQTALDERESHLRVPAVTLCNINP1P1RSRSLTENDLHWAGSALLGDP 120 Qy 121 EHAAFRLAIGRPPAPPGMPSPTFDQAQLYARAGHSDDMLDCRFGRQPCGPENFTIF 180 Db 121 EHAAFRLAIGRPPAPPGMPSPTFDQAQLYARAGHSDDMLDCRFGRQPCGPENFTIF 180 Qy 61 AERVYYREFHQTALDERESHLRVPAVTLCNINP1P1RSRSLTENDLHWAGSALLGDP 120 Db 61 AERVYYREFHQTALDERESHLRVPAVTLCNINP1P1RSRSLTENDLHWAGSALLGDP 120 Qy 121 EHAAFRLAIGRPPAPPGMPSPTFDQAQLYARAGHSDDMLDCRFGRQPCGPENFTIF 180 Db 121 EHAAFRLAIGRPPAPPGMPSPTFDQAQLYARAGHSDDMLDCRFGRQPCGPENFTIF 180 Qy 181 TRMGCKYTENSGADAAELTTTRGMGKIDIMLDQOEBYLFWNRNEEFPFEGIRVQ 240 Db 181 TRMGCKYTENSGADAAELTTTRGMGKIDIMLDQOEBYLFWNRNEEFPFEGIRVQ 240 Qy 241 IHSQEEPP1IDQLGIVSPYQTVFSCQQQQLSFLPPWGDSASLNPNEPEPSPDPLG 300 Db 241 IHSQEEPP1IDQLGIVSPYQTVFSCQQQQLSFLPPWGDSASLNPNEPEPSPDPLG 300 Qy 301 SPSPSPSPPTYIIGRCACTETRYVARKCGERMVMYMDPVCSPOQYKNCAHPDAILR 360 Db 301 SPSPSPSPPTYIIGRCACTETRYVARKCGERMVMYMDPVCSPOQYKNCAHPDAILR 360 Qy 361 KDSACAPNPCASTRYAKELSMYRIPSPAAAFLARKEUNRSEAYIAENVNLALDIFFALNY 420 Db 361 KDSACAPNPCASTRYAKELSMYRIPSPAAAFLARKEUNRSEAYIAENVNLALDIFFALNY 420 Qy 421 ETVEQKAYEMSELQIGGGMGLFIGASLITLITLEYDCEVERDKVLGYFVNROHSQR 480 Db 421 ETVEQKAYEMSELQIGGGMGLFIGASLITLITLEYDCEVERDKVLGYFVNROHSQR 480 Qy 361 KDSACAPNPCASTRYAKELSMYRIPSPAAAFLARKEUNRSEAYIAENVNLALDIFFALNY 420 Db 361 KDSACAPNPCASTRYAKELSMYRIPSPAAAFLARKEUNRSEAYIAENVNLALDIFFALNY 420 Qy 481 HSSTNLLQEGIGSHRTQVPHLSLGP-----P-----TPPCAVTKTLSASHRT 524 Db 481 HSSTNLLQEGIGSHRTQVPHLSLGP-----P-----TPPCAVTKTLSASHRT 524 Qy 525 CYLV 528 Db 525 CYLV 528 Qy 541 AVCV 544 Db 541 AVCV 544

RESULT 5
US-09-983-204-2
Sequence 2, Application US/09983204
; Patent No. US20021730061
; GENERAL INFORMATION:
; APPLICANT: REINAUD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; PRIOR APPLICATION NUMBER: 09/424,666
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 97401196.7
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 6
; LENGTH: 549
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-2

Query Match 91.1%; Score 2598; DB 9; Length 543;
Best Local Similarity 93.9%; Pred: No. 1.6e-130;
Matches 491; Conservative 4; Mismatches 12; Indels 16; Gaps 3;

1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGWMAAAVALSVATFLYQ 60
Db 1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGWMAAAVALSVATFLYQ 60
Qy 1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGWMAAAVALSVATFLYQ 60
Db 1 MKPTSGPPEARRPSDIRVFAASNCMHEGLHVFGPSISLRLRGWMAAAVALSVATFLYQ 60
Qy 61 AERVYYREFHQTALDERESHLRVPAVTLCNINP1P1RSRSLTENDLHWAGSALLGDP 120

RESULT 6
 US-09-983-204-4
 ; Sequence 4, Application US/09983204
 ; Patent No. US20020173000A1
 ; GENERAL INFORMATION:
 ; APPLICANT: RENARD, STEPHANE
 ; APPLICANT: BERNARD, FRANCOIS
 ; APPLICANT: GRAHAM, DAVID
 ; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
 ; FILE REFERENCE: 07586_0010
 ; CURRENT APPLICATION NUMBER: US/09/983,204
 ; CURRENT FILING DATE: 2001-10-23
 ; PRIOR FILING DATE: 2001-02-22
 ; PRIOR APPLICATION NUMBER: PCT/EP98/02884
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 97401196.7
 ; PRIOR FILING DATE: 1997-05-30
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 4
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; LENGTH: 518
 ; US-09-983-204-4

Query Match 87 0%; Score 2481; DB 9; Length 518;
 Best Local Similarity 94.0%; Pred. No. 9.1e-220;
 Matches 468; Conservative 4; Mismatches 10; Indels 16; Gaps 3;

QY 26 MHGLGHVEGCGSISLRRGMHAAAVVLSVATFLIQUAERYTREPHAGTLDERESRLV 85
 DB 1 MHGLGHVEGCGSISLRRGMHAAAVVLSVATFLIQUAERYTREPHAGTLDERESRLV 85

QY 86 FPAVLNCNPLRRLPDLHWA5ALLGDAEHAFLRAJGRPPGMPSPSTFD 145
 DB 61 FPAVLNCNPLRRLPDLHWA5ALLGDAEHAFLRAJGRPPGMPSPSTFD 120

QY 146 MAQLYARAGHSIDDMLLDCRFRGCGPENFTTIFTRMGCKYTNSGADGABLTTTRGG 205
 DB 121 MAQLYARAGHSIDDMLLDCRFRGCGPENFTTIFTRMGCKYTNSGADGABLTTTRGG 180

RESULT 7
 US-10-258-073-8
 ; Sequence 8, Application US/10258073
 ; Publication No. US20030219850A1
 ; GENERAL INFORMATION:
 ; APPLICANT: McGill University
 ; APPLICANT: Babinski, Kazimierz
 ; APPLICANT: Sequela, Philippe
 ; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: 0103.001-WO-US
 ; CURRENT APPLICATION NUMBER: US/10/255,073
 ; CURRENT FILING DATE: 2001-04-20
 ; PRIOR APPLICATION NUMBER: PCT/CA01/00561
 ; NUMBER OF SEQ ID NOS: 28
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 533
 ; TYPE: PRT
 ; ORGANISM: RAT ASIC2A
 US-10-258-073-8

Query Match 85 8%; Score 2447; DB 15; Length 533;
 Best Local Similarity 83.5%; Pred. No. 1.3e-216;
 Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;

QY 1 MKPTSGPEEA-RROPSDIRDYFASNCMSMKGIGHVFGPCSSLIRRGMMWAAAVLVSATELYQ 59
 DB 1 MKPRSGEEAQRQASDIRDYFASNCMSMKGIGHVFGPCSSLIRRGMMWAAAVLVSATELYQ 60

QY 60 VAERYVYREPHOTALDERESHRLVPAVTLCNPLRRLPDLHWA5ALLGDP 11.9
 DB 61 VAERYVYGEFHKTLDERESHOLTPAVTLCNPLRRLPDLHWA5ALLGDP 12.0

QY 120 AEHAALRRAJGRPPAPPGPAPPSPITFDMAQLYARAGHSIDDMLLDCRFRGCGPENFTI 179
 DB 121 AEHAAYLRALGQPAPPGPAPPSPITFDMAQLYARAGHSIDDMLLDCRFRGCGPENFTI 180

QY 180 FTRMGCKYTNSGAGELIITTRGMGNGLDIMDVQOEYLPWRIINEETPFEVGIRV 239
 DB 181 FTRMGCKYTNSGAGELIITTRGMGNGLEMDLVQOEYLPWRIIMEETPFEVGIRV 240

QY 240 QHSQEBPPIDOLGLGVSPGYCTFVSCQQQLSFLPPWGDSSAISLNP-NYEPEPDP 298
 DB 241 QHSQEPPAIDQLGFAAAPHQTFVSCQQQLSFLPPWGDNTAISLDPDDDEPDP 300

QY	299 LGSPSPSPSPSPPTLMGRCLACETRYVARKCGERMVMYGDYPVCSPOQYRNCAHPAIDAI 358	Db	411 ALNYTIFQKAYEVAAILGIGQMLFIGASLLTILEFDYTIVELIKEKLIDLGKEE 470
Dib	301 LGSPSPSPSPSPPTLMGRCLACETRYVARKCGERMVMYGDYPVCSPOQYRNCAHPAIDAM 360	Qy	477 HSQRHSSTNLQEGLGSHTQPH 500
QY	359 LRKDSCAPNCASTRYAKELSMYRIPSRAARFLARKLNRSAYIAENVLALDIFEA 418	Db	471 EGGSHDENMSCTDMPNHSETISH 494
Dib	361 LRKDTCVCPNCASTRYAKELSMYRIPSRAARFLARKLNRSAYIAENVLALDIFEA 420	Qy	419 NYETVEQKAYEMSEBLIGGOMGLFIGASLLTILEFDKVGYFNRQHS 478
Db	421 NYEAPEQKAYEVELLGIGGONGLFFIGASLLTILEFDKVGYFNRQSA 480	RESULT 9	US-19-98-204-14
Qy	479 QRHSSTNLQEGLSSHRTOYPHISLGPPPTPCAVKTLSASHRTCYLVTL 531	Db	Sequence 14, Application US/09983204
Dib	481 QKRSNTLQEEBLNGHRYPHISLGPPPTCAVKTLSASHRTCYLVTRL 533	Qy	Patent No. US2002173000A1
QY	7 Sequence 6, Application US/10258073	GENERAL INFORMATION:	GENERAL INFORMATION:
Dib	7 Publication No. US20030219858A1	APPLICANT: REWARD, STEPHANE	APPLICANT: REWARD, STEPHANE
QY	7 GENERAL INFORMATION:	APPLICANT: BERNARD, FRANCOIS	APPLICANT: BERNARD, FRANCOIS
Dib	7 APPLICANT: McGill University	APPLICANT: GRAHAM, DAVID	APPLICANT: GRAHAM, DAVID
QY	7 APPLICANT: Babinski, Kazimierz	TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR	TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
Dib	7 APPLICANT: Seguela, Philippe	FILE REFERENCE: 07586_0010	FILE REFERENCE: 07586_0010
QY	7 TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES	CURRENT APPLICATION NUMBER: US/09/983,204	CURRENT APPLICATION NUMBER: US/09/983,204
Dib	7 TITLE OF INVENTION: THEREOF	PRIOR APPLICATION NUMBER: 09-424,666	PRIOR APPLICATION NUMBER: 09-424,666
QY	7 FILE REFERENCE: 0103-001-WO-US	PRIOR FILING DATE: 2001-02-22	PRIOR FILING DATE: 2001-02-22
Dib	7 CURRENT APPLICATION NUMBER: US/10/258,073	PRIOR APPLICATION NUMBER: PCT/EP98/028884	PRIOR APPLICATION NUMBER: PCT/EP98/028884
QY	7 CURRENT FILING DATE: 2001-04-20	PRIOR FILING DATE: 1998-05-15	PRIOR FILING DATE: 1998-05-15
Dib	7 PRIOR APPLICATION NUMBER: PCT/CA01/00551	PRIOR APPLICATION NUMBER: 97-01196.7	PRIOR APPLICATION NUMBER: 97-01196.7
QY	7 PRIOR FILING DATE: 2000-04-20	PRIOR FILING DATE: 1997-05-30	PRIOR FILING DATE: 1997-05-30
Dib	7 NUMBER OF SEQ ID NOS: 19	NUMBER OF SEQ ID NOS: 19	NUMBER OF SEQ ID NOS: 19
QY	7 SOFTWARE: PatentIn Ver. 2.0	SOFTWARE: PatentIn Ver. 2.0	SOFTWARE: PatentIn Ver. 2.0
Dib	7 SEQ ID NO: 6	SEQ ID NO: 14	SEQ ID NO: 14
QY	7 LENGTH: 512	Length: 512;	Length: 512;
Dib	7 TYPE: PRT	Query Match	Query Match
QY	7 ORGANISM: RAT ASIC2A	Best Local Similarity	Best Local Similarity
Dib	7 US-10-258-073-6	Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;	Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;
QY	7 PEARRQPSDIRVASNCMGRGHVFPGSTSLLRGWAAAVVLSSVATFLYQAERVRY 66	Qy	7 PEARRQPSDIRVASNCMGRGHVFPGSTSLLRGWAAAVVLSSVATFLYQAERVRY 66
Dib	7 PSEGSLQPSQSIQIANTSLVPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66	Db	7 PSEGSLQPSQSIQIANTSLVPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66
QY	67 YREFHQTLADERESENTHRLYFPAVTLCNINPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66	Qy	67 YREFHQTLADERESENTHRLYFPAVTLCNINPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66
Dib	67 YREFHQTLADERESENTHRLYFPAVTLCNINPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66	Db	67 YREFHQTLADERESENTHRLYFPAVTLCNINPLRSLTLLGRHIFTYGPITIRRVLWAVFGSLLVESSRVSY 66
QY	67 YFSYQHVTXTRYDEVAAQLSLPPAVTLCNINPFSRLTNDLYFAGELLLADDVNLOIPDP 126	Qy	67 YFSYQHVTXTRYDEVAAQLSLPPAVTLCNINPFSRLTNDLYFAGELLLADDVNLOIPDP 126
Dib	67 YFSYQHVTXTRYDEVAAQLSLPPAVTLCNINPFSRLTNDLYFAGELLLADDVNLOIPDP 126	Db	67 YLADPSVLEALRKANFHRYHKP-QFSMLELHRVHDLDMMILCKPKQECGHQDFTT 185
QY	122 HAA--FLRALGRPPAPPGFMPSPTEQDQYARAGHSDDMLDQCRGQCPGPENFTT 178	Qy	122 HAA--FLRALGRPPAPPGFMPSPTEQDQYARAGHSDDMLDQCRGQCPGPENFTT 178
Dib	122 HLADPTVLEALRKANFHRYHKP-QFSMLELHRVHDLDMMILCKPKQECGHQDFTT 185	Db	122 HLADPTVLEALRKANFHRYHKP-QFSMLELHRVHDLDMMILCKPKQECGHQDFTT 185
QY	179 IFTRMGKCYTENSGADGAELLTTTGGGMGNGLDMDVQOEYLFWYRDNBTPEPVGIR 238	Qy	179 IFTRMGKCYTENSGADGAELLTTTGGGMGNGLDMDVQOEYLFWYRDNBTPEPVGIR 238
Dib	179 IFTRMGKCYTENSGADGAELLTTTGGGMGNGLDMDVQOEYLFWYRDNBTPEPVGIR 238	Db	179 IFTRMGKCYTENSGADGAELLTTTGGGMGNGLDMDVQOEYLFWYRDNBTPEPVGIR 238
QY	239 VQIHSQEPP1IDQIGLGVSPGQTYEVSCQQQQLSFLLPPWGDCSSASAINPNEYPPSDP 298	Qy	239 VQIHSQEPP1IDQIGLGVSPGQTYEVSCQQQQLSFLLPPWGDCSSASAINPNEYPPSDP 298
Dib	246 VQIHSQEPP1IDQIGLGVSPGQTYEVSCQQQQLSFLLPPWGDCSSASAINPNEYPPSDP 298	Db	246 VQIHSQEPP1IDQIGLGVSPGQTYEVSCQQQQLSFLLPPWGDCSSASAINPNEYPPSDP 298
QY	299 LGSPSPSPSPSPPTLMGRCLACETRYVARKCGERMVMYGDYPVCSPOQYRNCAHPAIDAI 358	Qy	299 LGSPSPSPSPSPPTLMGRCLACETRYVARKCGERMVMYGDYPVCSPOQYRNCAHPAIDAI 358
Dib	299 -----FVYSTTACRIDCETRYIVENCNVNMGMDAFCPTPQKHECAEPAGLL 350	Db	299 -----FVYSTTACRIDCETRYIVENCNVNMGMDAFCPTPQKHECAEPAGLL 350
QY	359 LRKDS--CACPNPCASTRYAKELSMVTPSRAARFLARKLNRSAYIAENVLALDIFE 416	Qy	359 LRKDS--CACPNPCASTRYAKELSMVTPSRAARFLARKLNRSAYIAENVLALDIFE 416
Dib	351 AEKDSNYCLCRTPNLTRYNEKSMVTPSKTSAYLJEKKENKSEKYSSENVLDFEE 410	Db	351 AEKDSNYCLCRTPNLTRYNEKSMVTPSKTSAYLJEKKENKSEKYSSENVLDFEE 410
QY	417 ALNYTIFQKAYEVAAUCLGIGQMLFIGASLLTILEFDYLYCEVRDKVLYFWNRQ 476	Qy	417 ALNYTIFQKAYEVAAUCLGIGQMLFIGASLLTILEFDYLYCEVRDKVLYFWNRQ 476
Dib	411 ALNYTIEQKAYEVAAUCLGIGQMLFIGASLLTILEFDYLYCEVRDKVLYFWNRQ 476	Db	411 ALNYTIEQKAYEVAAUCLGIGQMLFIGASLLTILEFDYLYCEVRDKVLYFWNRQ 476
QY	477 HSQRHSSTNLQEGLGSHTQPH 500	Qy	477 HSQRHSSTNLQEGLGSHTQPH 500

Do 471 DEGSHDENVSTCDMPNHSETISH 494

RESULT 10

; Sequence 2, Application US/1058073
; Publication No. US20030219858A1
; GENERAL INFORMATION
; APPLICANT: McGill University
; APPLICANT: Babinshi, Kazimierz
; APPLICANT: Seguela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; FILE REFERENCE: 0103-001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIORITY FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 2
; LENGTH: 512
; TYPE: PRT
; ORGANISM: HUMAN ASIC2A
; US-10-258-073-2

Query Match 47.9%; Score 1365; DB 15; Length 512;
Best Local Similarity 50.6%; Pred. No. 8.3e-11; Indels 26; Gaps 5;
Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;

Qy 7 PEARROPSDIREVASNCNSMHLGLHVGPGSISLRLGMWAAAVLSSVADFLYQAERYVY 66
Db 7 PSEGSIQPSQIQTANTSLIGRHTFVGPBLTRVWAWAFGSLGLLVESESY 66

Qy 67 YREFHQTALDERESEHRLVFPATVLCNINPDRRSLLTPDLEHWSALLGLD---PAE 121
Db 67 YFSYCHVTKDEVVAQSLIVFPATVLCNINPDRRSLLTPDLEHWSALLGLD---PAE 121

Qy 122 HAA---FLRALGRPPAPPGMPSPTDMAQLYARAGHSDDMLDCRFQPCGPENFT 126
Db 127 HLADPSVLEALRKANFKHYKPK-QFSMELFLHRGHDDKMDMFLCKFGQECQHDFT 185

Qy 179 IFTRMGKCYTENSGADGAELLTTTRGMGNGLDIMLDVQZBLYLPWDRDNBTPEV 235
Db 186 VFTRGKCMFNSGEDKPLITVKGIGMLEIMLDQDETLPIWGTEETFEAGV 245

Qy 239 VOHSQEPPPTIDOLGLGJSPGYCPTFVSCQQQISFLP2PWGDCCSSA1NPYEPSSDP 298
Db 246 VQHSSQEPPTOEGFGAPGQFQTFVATQYLPFWGECSRSMGLDF-----
Qy 299 LGSPSPSPSPPTLMGCRLAECTRYVARCGCRNVPYMPDVPCSPQOYNCAHPAID 358
Db 299 -----FVSYSTACRDLCETRYVIVENCNCRMVHMPCDAFPTPEQKECAEPAGL 350

Qy 359 LRKDS---CAENPCASTRAKELSMVRISRAARFLARKLNSEAYTAENTLADIFFE 416
Db 351 AEKDSNYCLCRTCPCNLTRNKELSMVKFSKTSAKYLEKFKENXYSIENLVLDFE 410

Qy 417 ALNTETBQKAYEMSELLDIGGQMGLFIGASLTILELDLCYEVFRDKVLYGFNRQ 476
Db 411 ALNTETBQKAYEAVALLDIGGQMGLFIGASLTILELDLCYEVFRDKVLYGFNRQ 470

Qy 477 HSQRHSSTNLQEGLGSHRTQPHHSLSGPPTPPC 512
Db 471 DEGSHDENVSTCDMPNHSETISH 494

RESULT 11

; Sequence 13, Application US/0983204
; Patent No. US2002013000A1
; GENERAL INFORMATION

Do 471 DEGSHDENVSTCDMPNHSETISH 494

Do 471 DEGSHDENVSTCDMPNHSETISH 495

RESULT 12

; Sequence 14, Application US/1002900A
; Publication No. US2004004382A1
; GENERAL INFORMATION
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spyrek, Kimberly A.
; APPLICANT: Shanoy, Suresh G.
; APPLICANT: Tannier, Jr. Raymond J.

APPLICANT: Pena, Carol E.A.
 APPLICANT: Li, Li
 APPLICANT: Zerhusen, Bryan D.
 APPLICANT: Gusev, Vladimir Y.
 APPLICANT: Ji, Weizhan
 APPLICANT: Gorman, Linda
 APPLICANT: Miller, Charles E.
 APPLICANT: Kekuda, Ramesh
 APPLICANT: Patturajan, Meera
 APPLICANT: Gangoli, Esha A.
 APPLICANT: Verner, Corine A.M.
 APPLICANT: Guo, Xiaochia Sasha
 APPLICANT: Tchernev, Velizar T.
 APPLICANT: Fernandes, Elma R.
 APPLICANT: Casman, Shacie J.
 APPLICANT: Malyankar, Urjel M.
 APPLICANT: Gerlach, Valerie
 APPLICANT: Liu, Yi
 APPLICANT: Anderson, David W.
 APPLICANT: Spaderna, Steven K.
 APPLICANT: Catterton, Elina
 APPLICANT: Leite, Mario W.
 APPLICANT: Zhong, Haihong
 APPLICANT: Alsobrook, John P.
 APPLICANT: Lepley, Denise M.
 APPLICANT: Rieger, Daniel K.
 APPLICANT: Burgess, Catherine E.
 TITLE OF INVENTION: No. US20040043382A1 Proteins and Nucleic Acids Encoding Same
 FILE REFERENCE: 21402-290C
 CURRENT APPLICATION NUMBER: US/10/092,900A
 CURRENT FILING DATE: 2002-03-07
 PRIOR APPLICATION NUMBER: USSN 60/274,322
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USN 60/283,675
 PRIOR FILING DATE: 2001-04-13
 PRIOR APPLICATION NUMBER: USSN 60/338,092
 PRIOR FILING DATE: 2001-12-03
 PRIOR APPLICATION NUMBER: USSN 60/274,281
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USN 60/274,191
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USSN 60/325,681
 PRIOR FILING DATE: 2001-09-27
 PRIOR APPLICATION NUMBER: USSN 60/304,354
 PRIOR FILING DATE: 2001-07-10
 PRIOR APPLICATION NUMBER: USN 60/279,995
 PRIOR FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: USSN 60/294,899
 PRIOR FILING NUMBER: USSN 60/287,424
 PRIOR FILING DATE: 2001-04-30
 REMAINING PRIOR Application data removed - See file wrapper or PALM.
 NUMBER OF SEQ ID NOS: 768
 SEQ ID NO: 104
 LENGTH: 514
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-092-900A-104

Query Match 46.4%; Score 1321.5%; DB 12; Length 514;
 Best Local Similarity 53.9%; Pred. No. 8.7e-113;
 Matches 244; Conservative 76; Mismatches 110; Indels 23; Gaps 6;

13 QPSDIRFAASNCMSHGLGIVFGPSLSSLRGMWAAVYLSVATFLYQVAERVRYREFHH 72
 14 QPVDFAPAFNSCTLHGTHIIPAVTLCNINPLRSRLTPNDLHWAGSALLGLDPAEAAFLRALGR 73
 73 QTALDRESHRLVFPAVTLCNINPLRSRLTPNDLHWAGSALLGLDPAEAAFLRALGR 132
 74 VTLNEVATELAFPAVTLCNNAVRSLQSYPLLY-APMGLDDSPVPLA--P 129

133 PAPPGFMSPTEDWQLYARAGHSIDDDMLCERGQCPENETTFTBPGKCYTFNSG 192

Db 130 PGPEAFSGEP-FNLHRFYNRSCHRLDEMLLYCSYGGPCGPHNESVVFTRYGKCYTFNSG 188
 Qy 193 ADGBELLTTTRGGANGNGLDIMUDVQZQEBYLPPWDNEETPFAGVIRVQISQEPPIDQ 252
 Db 189 RDGRPRLKTMKGTTGNGLEIMLDIOQDEBLPTWGETDETSPEAGIQVHQSODEPFFIDQ 248
 Qy 253 LGLGWSPGYQTFVSCQQCQLSFLPPMGDCSSA1NPYEBPSPDPLGSPPSPSPSPYTL 312
 Db 249 LGFGWAPGQFTVACQEQRI-YLPPPGTCKAVTMOSDF-----FSYSI 292
 Qy 313 MGCRLACETRYARKGCCRMVYMPGDVPVCSPQYKNCAPAIATLKD\$--CACPNPC 370
 Db 293 TACRIDCEPRLYENCNCRMVHMPGDAPYCTEQYKECADPLFLVERQOBYCVCMPC 352
 Qy 371 ASTRAKAKELSMYRIPSRAARFLARKLNRSERAYIAENVLADIFFPALNTVEORKAYE 430
 Db 353 NLTQYKEISMVKLPSAKYTLAKRNSEIGENILVLDIFFVNLNTIEORKAYE 412
 Qy 431 VSELIGDGGQMGLFIGASLSTLILELDLCLBY 463
 Db 413 TAGLIGDGGQMGLFIGASLITLEFDAYEV 445

RESULT 13
 US-09-772-180A-B
 Sequence 8, Application US/09772180A
 Publication No. US20030027749A1
 GENERAL INFORMATION:
 / APPLICANT: MCGRAW HILL INC
 / APPLICANT: David C. Harrison
 / APPLICANT: John Davis
 / APPLICANT: Sharon Bingham
 / APPLICANT: Trudy R. Doe
 / APPLICANT: Simon Topp
 / TITLE OF INVENTION: NOVEL COMPOUNDS
 / FILE REFERENCE: GH-30021-C1
 / CURRENT APPLICATION NUMBER: US/09/772,180A
 / CURRENT FILING DATE: 2001-01-29
 / PRIOR APPLICATION NUMBER: 09-063,848
 / PRIOR FILING DATE: 1998-04-21
 / PRIOR APPLICATION NUMBER: 9708936.1
 / PRIOR FILING DATE: 1997-05-01
 / PRIOR APPLICATION NUMBER: 97110289.0
 / PRIOR FILING DATE: 1997-12-18
 / PRIOR APPLICATION NUMBER: 9803566.0
 / PRIOR FILING DATE: 1998-02-19
 / NUMBER OF SEQ ID NO: 8
 / SOFTWARE: FastSEQ for Windows Version 3.0
 / SEQ ID NO: 8
 / LENGTH: 519
 / TYPE: PRT
 / ORGANISM: HOMO SAPIENS
 US-09-772-180A-B

Query Match 41.4%; Score 1180; DB 10; Length 539;
 Best Local Similarity 49.8%; Pred. No. 1.1e-99;
 Matches 241; Conservative 58; Mismatches 161; Indels 8 30; Gaps 9;

14 PSDIRVFAASNCMSHGLGIVFGPSLSSLRGMWAAVYLSVATFLYQVAERVRYREFHH 73
 39 PRDIAFASTSTLHGGRAGCOPGHGRRITWALILTSIAFLYAGLARYGTYRPHL 98
 74 TALDRESHRLVFPAVTLCNINPLRSRLTPNDLHWAGSALLGLDPAEAAFLRALGR 131
 99 VAMPAPAPAPVAFPAVTLCNINPLRSRLSDADIPHLL-LTGFLPKORDGEAAGL 156
 132 PAPPGFMSPTEDWQLYARAGHSIDDDMLCERGQCPENETTFTBPGKCYTFNS 191
 157 YPEP-----DMVDILNRTHQADLMKSCNFSGHCSASNFEEVVFTRYGKCYTFN- 206
 192 GADAAELDTTTRGGANGLDIVQEBEYLPPWDNEETPFAGVIRVQISQEPPID 251
 Db 207 -ADPRSSPSRASGMSGSEIMDIQEEBYLPWRFNETSFAGIRVQHSQEPPYI 265

Query Match 41.4%; Score 1180; DB 15; Length 539;
 Best Local Similarity 49.8%; Pred. No. 1..1e-9;
 Matches 24; Conservative 58; Mismatches 161; Indels 30; Gaps 9.
 US-10-295-027-290

RESULT 14
 US-10-295-027-290
 ; Sequence 290, Application US/10295027
 ; Publication No. US2003023350A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Afar, Daniel
 ; APPLICANT: Aziz, Natasha
 ; APPLICANT: Ginsberg, Wendy M.
 ; APPLICANT: Gish, Kurt C.
 ; APPLICANT: Glynn, Richard
 ; APPLICANT: Hevezzi, Peter A.
 ; - APPLICANT: Mack, David H.
 ; APPLICANT: Murray, Richard
 ; APPLICANT: Watson, Susan R.
 ; APPLICANT: Bos Biotechnology, Inc.
 ; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
 ; Methods of Screening for Modulators of Cancer
 ; FILE REFERENCE: 018501-01500US
 ; CURRENT APPLICATION NUMBER: US/10/295,027
 ; CURRENT FILING DATE: 2002-11-13
 ; PRIOR APPLICATION NUMBER: US 09/663,733
 ; PRIOR FILING DATE: 2000-09-15
 ; PRIOR APPLICATION NUMBER: US 60/350,666
 ; PRIOR FILING DATE: 2001-11-13
 ; PRIOR APPLICATION NUMBER: US 60/335,394
 ; PRIOR FILING DATE: 2001-11-15
 ; PRIOR APPLICATION NUMBER: US 60/332,464
 ; PRIOR FILING DATE: 2001-11-21
 ; PRIOR APPLICATION NUMBER: US 60/334,393
 ; PRIOR FILING DATE: 2001-11-29
 ; PRIOR APPLICATION NUMBER: US 60/340,376
 ; PRIOR FILING DATE: 2001-12-14
 ; PRIOR APPLICATION NUMBER: US 60/347,211
 ; PRIOR FILING DATE: 2002-01-08
 ; PRIOR APPLICATION NUMBER: US 60/347,149
 ; PRIOR FILING DATE: 2002-01-10
 ; PRIOR APPLICATION NUMBER: US 60/355,250
 ; PRIOR FILING DATE: 2002-02-08
 ; PRIOR APPLICATION NUMBER: US 60/356,714
 ; PRIOR FILING DATE: 2002-02-13
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 290
 ; LENGTH: 539
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-295-027-290

Query Match 41.4%; Score 1180; DB 15; Length 539;
 Best Local Similarity 49.8%; Pred. No. 1..1e-9;
 Matches 24; Conservative 58; Mismatches 161; Indels 30; Gaps 9.
 US-10-295-027-290

Qy	14	PSDIRVFASNCMIGLGHVFGPGSISLRRGMMWAAAVLSVATFLYQAERVRYREFFHQ	73
Db	39	PRDLATFASTLHGLGRACGPFGHLRLTLLAALLTSLAAFLYQAAGLARGYLTRPHL	98
Qy	74	TALDERESEFLR-TPAVLCTNINPLRSRSLTPNDL-HWAGSAUJGLDPAEHAFLRALGR	131
Db	99	VAMDEAAPAVGAGPAVLTNINFRHSALSADIFHLAN--TGPPKDRGHRRAIGR	156
Qy	132	PPAPPGFMSPTFDMQLYARAGHSDDMMILDCRFRGQCPGENFTTIFTRMGKCYTENS	191
Db	157	YPEP-----DMVDILNRTGEHQDMLKSCNFSGHCSAASFNVYTYTRYCKCYTEN-	206
Qy	192	GADGAELLTTRGGMNGLDIMDVQOEYLWDRDNBETPFEVGIRYQIHSOEEPPID	251
Db	207	-ADPRSSLPSRAGMGSGLEIMDQBEYLPIWRNETNETSFAGIRQIHSOEEPPVH	265
Qy	252	QLGRGSQSPYQTFSQCOOLSLPPWPGDCSASLNPNYEPEPDSQGSPSPSPSPAYT	311
Db	266	QLFGVSGPFGOTVSCQEORLTVLPQPGNCNRAES-----ELREPELGQSAYS	314
Qy	312	LMGRLACSTRYARKCSCRMTYMPGDVPCVSPQQYRNKAHPAIDAI-LRKDSCACNP	369
Db	315	VSCARTRKEEAVLQRCHCRNTHMPGNETICPPNIVBCADFTLDSUGGPGPCCTP	374
Qy	370	CASTRYARELSMYRIPSPAAARFLARKLNRSRAYIAENVLALDIFEFALNYETVEQKKAY	429
Db	375	CNLTRXGEKIPGSRGARYLARCKYRNTRNFLVDFFFALTSAAMEQAAAY	434
Qy	430	EMSELBDGIGQGLFIGASLTILEDYLCEVFRKVLGYFWNRHOSQRHSSSTNLQE	489
Db	435	GLSALLBDGIGQGLFIGASLTILEDYLCEVFRKVLGYFWNRHOSQRHSSSTNLQE	493
Qy	490	-GLGSHARTQPHLISLG	504
Db	494	LGLQKEKEQSPOPSUG	509
RESULT 15			
US-09-772-180A-2			
; Sequence 2, Application US/09772180A			
; Publication No. US2003002779A1			
; GENERAL INFORMATION:			
; APPLICANT: David C. Harrison			
; APPLICANT: John Davis			
; APPLICANT: Sharon Bingham			
; APPLICANT: Trudy R. Doe			
; APPLICANT: Simon Topp			
; TITLE OF INVENTION: NOVEL COMPOUNDS			
; FILE REFERENCE: CH 30021.C1			
; CURRENT APPLICATION NUMBER: US/09/772,180A			
; CURRENT FILING DATE: 2001-01-29			
; PRIOR APPLICATION NUMBER: 09/063,848			
; PRIOR FILING DATE: 1998-04-21			
; PRIOR APPLICATION NUMBER: 9708936.1			
; PRIOR FILING DATE: 1997-05-01			
; PRIOR APPLICATION NUMBER: 97310289.0			
; PRIOR FILING DATE: 1997-12-18			
; PRIOR APPLICATION NUMBER: 9803566.0			
; PRIOR FILING DATE: 1998-02-19			
; NUMBER OF SEQ ID NOS: 8			
; SOFTWARE: FastSEQ For Windows Version 3.0			
; SEQ ID NO: 2			
; LENGTH: 539			
; TYPE: PRT			
; ORGANISM: HOMO SAPIENS			
US-09-772-180A-2			
Query Match 41.2%; Score 1175; DB 10; Length 539;			
Best Local Similarity 4.6%; Pred. No. 3e-99;			
Matches 246; Conservative 58; Mismatches 1162; Indels 30; Gaps 9;			
US-09-772-180A-2			

Db	PRDLATTASTSTLHGGRACCPGPHGLRRTIWAALITSAAFYQRAAARGVPLTRPHL	98
Qy		
74	TALDERSHRLY-FPATVLCNINPLRSRLTPNLD-HWAGSALLQLDPAEHAALFLAIGR	131
99	VADMAPAPAVGFPATVLCNINPLRSRLTSDAIDFLHLAN-LTCCLPPDKRDGHRAAGIR	156
Db		
Qy		
132	PAPPAPPMPSPDPFDQYARAGHSLLDDMELDCRFRGQPQGPENFTTIPTRMGCYCTENS	191
157	YPEP-----DMVDILNRTGHQALADMILKSCNSGHHCSASNSFSVWTRYGCYCTEN-	206
Db		
Qy		
192	GADGAELLTTTRGMGMGLDILMDVQQEENYLQWVWDNEETPPFENGYIRVQIHSQBPPPTID	251
207	-ADPSSLSSPSSAGHNGSGLEIMLDIQQEEYLPVLTNETTSFEAGIRVQIHSQBPPPTH	265
Db		
Qy		
252	QLGLGVSPGYCFVSCQQQQLSFLPPPWGDSSASLNPNEYEPSPDPLGSPPSPSPPPYT	311
266	QLFGFVSPGQTFFVSCOEQRILYLPWGNCRAES-----ELREPLOGYSAYS	314
Db		
Qy		
312	LMGCRCLACETRYARKRCGRMVMGDPVYCSPQOYKNCNAHPAIDAI--LRKDSCACPNPT	365
315	VSACRDRCEKAVLQICHCRCMVHMPPONETTCPNNITYIECADHTLISLGGGPEGFCFCPP	374
Db		
Qy		
370	CASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVIALLDIFPEAANYETVEOKKAY	428
375	CNLTTRYGREISVRIPRGSRVYALKYNNETYRENFLYDFEAFTSEABQRAYA	434
Db		
Qy		
430	EMSELIGDGOMGMLFYGASLTITLEBILLYCIEFRDKVLGYFVNROHSORHSTSNTLQE	489
435	GLSALIGDLGGMGLFYGASLTITLEBILLYCIEFRDKVLGYFVNROHSORHSTSNTLQE	493
Db		
Qy		
490	-GLGSHTRTQVPHLSLG	504
494	LGQOEIKEOSPCOSRG	509
Db		

Search completed: August 25, 2004, 13:11:47
Job time: 131 secs

This Page Blank (uspto)

Result No.	Score	Query Match	Length	DB ID	Description
1	28.33	99.4	531	3	US-09-360-197-14 Sequence 14, Appl
2	24.47	85.8	533	3	US-09-360-197-10 Sequence 10, Appl
3	13.65	47.9	512	2	US-09-360-197-2 Sequence 2, Appl
4	13.65	47.9	512	3	US-09-360-197-6 Sequence 6, Appl
5	12.29	46.9	559	3	US-09-360-197-8 Sequence 8, Appl
6	13.29	46.6	526	3	US-09-360-197-2 Sequence 2, Appl
7	12.49	46.3	514	3	US-09-360-197-4 Sequence 4, Appl
8	12.49	43.8	563	3	US-09-360-197-12 Sequence 12, Appl
9	11.80	41.4	539	4	US-09-360-197-12 Sequence 2, Appl
10	11.74	41.2	539	3	US-09-360-197-6 Sequence 9, Appl
11	41.9	14.7	625	3	US-09-360-197-15 Sequence 15, Appl
12	41.8	14.7	698	1	US-09-376-362A-20 Sequence 20, Appl
13	14.1	4.9	564	3	US-09-360-197-16 Sequence 16, Appl
14	34.2	12.0	493	6	5196333-4 Patient No. 5196333
15	34.1	12.0	755	3	US-07-861-458C-99 Sequence 99, Appl
16	33.8	11.9	753	3	US-07-861-458C-98 Sequence 98, Appl
17	32.0	11.2	520	3	US-07-861-458C-100 Sequence 100, Appl
18	24.9	8.7	294	6	5196333-2 Patient No. 5196333
19	13.9	4.9	5196333-9	6	5196333-9 Patient No. 5196333
20	12.7	4.5	173	6	5196333-6 Patient No. 5196333
21	11.7	4.1	67	6	5196333-0 Sequence 4450, Appl
22	106.5	3.7	663	4	US-09-54-681A-4450 Sequence 76, Appl
23	10.3	3.6	1739	4	US-09-976-594-76 Sequence 17886, Appl
24	101.5	3.6	1027	4	US-09-252-991A-17886 Sequence 2, Appl
25	100.5	3.5	2476	2	US-09-276-967-2 Sequence 118, Appl
26	98	3.4	40	3	US-07-861-458C-118 Sequence 20, Appl
27	98	3.4	659	4	US-09-562-737-20 Sequence 71, Appl

ALIGNMENTS

RESULT 1
US-09-360-197-14
; sequence 14, Application US/09360197
; Patent No. 6287839
; GENERAL INFORMATION:
; APPLICANT: Bassilana, Frederic
; APPLICANT: Lazunski, Rainier
; APPLICANT: Waldmann, Rainer
; APPLICANT: Dewille, Jan R.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive Cationic Channels, Their Cloning and Applications
; FILE REFERENCE: 989_6705P
; CURRENT APPLICATION NUMBER: US/09/360,197
; PRIORITY APPLICATION NUMBER: 09/129,758
; PRIORITY FILING DATE: 1998-08-05
; PRIORITY APPLICATION NUMBER: 60/095,408
; PRIORITY FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-360-197-14

Query Match 99.4%; Score 2833; DB 3; Length 531;
Best Local Similarity 99.2%; Pred. No. 1.5e-273;
Matches 527; Conservative 2; Missmatches 2; Indels 0; Gaps 0;

1 MKPTGPGEEARROPDIDRFFHOTALDERSHLVLVPATILCNINPLRSRLTPNDLHWAGSALLGLDPA 120
QY 1 AERYYYREFFHOTALDERSHLVLVPATILCNINPLRSRLTPNDLHWAGSALLGLDPA 120
2 MKPTGPGEEARRPAIDRFFHOTASNCMEGIGHVFSGPSLSSLRRGMWAAAVVLSVATFLYQV 60
Db 1 MKPTGPGEEARRPAIDRFFHOTASNCMEGIGHVFSGPSLSSLRRGMWAAAVVLSVATFLYQV 60
3 EHAATLRAGLRGRPPGFMPSPTDMAQLYARACHSLDDMLLDCCRQPCGPBNFTIF 180
QY 121 EHAATLRAGLRGRPPGFMPSPTDMAQLYARACHSLDDMLLDCCRQPCGPBNFTIF 180
4 EHAATLRAGLRGRPPGFMPSPTDMAQLYARACHSLDDMLLDCCRQPCGPBNFTIF 180
Db 121 EHAATLRAGLRGRPPGFMPSPTDMAQLYARACHSLDDMLLDCCRQPCGPBNFTIF 180
5 TRMGCYCTNNSGADAEELLTTTGGNGNLDDQEEYLFWDRNEETPPEVGIRVQ 240
QY 181 TRMGCYCTNNSGADAEELLTTTGGNGNLDDQEEYLFWDRNEETPPEVGIRVQ 240
6 TRMGCYCTNNSGADAEELLTTTGGNGNLDDQEEYLFWDRNEETPPEVGIRVQ 240
Db 181 TRMGCYCTNNSGADAEELLTTTGGNGNLDDQEEYLFWDRNEETPPEVGIRVQ 240

Query 301. SPSPSPSPSPYTLNGCRLACETRYVARKGCRMVYMPGDVPCSPQQYKNCAPHAIDAILR 360
 Db 301. SPSSPSPPYTLNGCRLACETRYVARKGCRMVYMPGDVPCSPQQYKNCAPHAIDAILR 360
 Query 361. KDSCACPNPCASTRYAKLMSWIRPSRAARFLARKLNRSAYTAINVLALDIFFFALNY 420
 Db 361. KDSCACPNPCASTRYAKLMSWIRPSRAARFLARKLNRSAYTAINVLALDIFFFALNY 420
 Query 421. ETVEQKRAYEMSELLDIGOMGLFIGASLLTLELDYCEVERDKVLYGYFWRQHCSR 480
 Db 421. ETVEQKRAYEMSELLDIGOMGLFIGASLLTLELDYCEVERDKVLYGYFWRQHCSR 480
 Query 481. HSSTNLLOEGLGSHTOVSPLGPRPPTPPCAVTKTLASHRTCYLVTOl 531
 Db 481. HSSTNLLOEGLGSHTOVSPLGPRPPTPPCAVTKTLASHRTCYLVTOl 531
 RESULT 3
 US-08-828-596-2
 ; Sequence 2, Application US/08828596
 ; Patent No. 5892018
 ; GENERAL INFORMATION:
 ; APPLICANT: Welsh, Michael J.
 ; ADDRESS: Zarley McKee, Thomte, Voorhees & Sease
 ; STREET: 801 Grand Suite 3200
 ; CITY: Des Moines
 ; STATE: Iowa
 ; COUNTRY: United States
 ; ZIP: 50309
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/828,596
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/626,838
 ; FILING DATE: 02-APR-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Nebel, Heidi S.
 ; REGISTRATION NUMBER: 37,719
 ; REFERENCE/DOCKET NUMBER: uirf n6-53
 ; TELEPHONE: 515-288-3667
 ; TELEFAX: 515-288-1338
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 512 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-828-596-2

Query Match 85.8%; Score 2447; DB 3; Length 533;
 Best Local Similarity 83.5%; Pred. No. 4.6e-235;
 Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;

US-09-360-197-10
 ORGANISM: *rattus* sp.

Query Match 85.8%; Score 2447; DB 3; Length 533;
 Best Local Similarity 83.5%; Pred. No. 4.6e-235;
 Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;

US-09-360-197-10
 ORGANISM: *rattus* sp.

Query 1 MEPTSGPBEA-RQPSDIRVFASNCNSMHHGHHVFGGSLSURGRNWAAAVALSVATFLYQ 59
 Db 1 MPRSGLEBAQRQASDRVFASSCTMHEGLHIFGGGLTRRGWLAVTILSAAFLYQ 60
 Query 60 VAERVRYTREPHQTALDERESEHRLVFPATVLNCINPLRSRSLTNDLHWAGSALLGLDP 119
 Db 61 VAERVRYTGEFHKTITLDERESEHQLTFPATVLNCINPLRSRSLTNDLHWAGTALLGLDP 120
 Query 120 APEAAFLRALGRGPAPPGMPSPTDMAQLYARAGHSDDMLLDRFRGPGCPGENFTI 179
 Db 121 APEAAFLRALGRGPAPPGMPSPTDMAQLYARAGHSDDMLLDRFRGPGCPGENFTI 180
 Query 180 FTRMGKCYTFNSGADGAELLTTRGGMGNGLDIMDVQQEYLPYRDNBETPPEVGIRV 239
 Db 181 FTRMGQCYTFNSGAHGAELLTTPKGAGANGLEIMDVQQEYLPWQDMETPPEVGIRV 240
 Query 240 QIHSQEPPTIDOLGLGSPGYQTYFVSCQQQLSFPPNGDCSSASLNP-NYEPPEPSPD 298
 Db 241 QIHSQDPEPATIDOLGFSAAPGHOTFVSCQQQLSFPPNGDCNTASLNPDDFDPEPSPD 300
 Query 299 LGSPSPSPSPSPYTLNGCRLACETRYVARKGCRMVYMPGDVPCSPQQYKNCAPHAIDAI 358
 Db 301 LGSPPRPPSPSPYPSLGLRLLACESRYVARKGCCRMNHPGNSPVCSPPQYXDCASPALDAM 360
 Query 359 LRDSACPNPCASTRYAKLMSVRIPSRAARFLARKLNRSAYTAENVLALDIFFFAL 418

Query Match 47.9%; Score 1365; DB 2; Length 512;
 Best Local Similarity 50.6%; Pred. No. 3.1e-127;
 Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;

Query 7 PEARRQPSDIRVFASNCNSMHHGHHVFGGSLSURGRNWAAAVALSVATFLYQVAERYV 66
 Db 7 PSEGSILQPS-SIQIFANSTUFCIRH-FVYGPITRVLWAVAFVSSLGLLVESSERSVY 66
 Query 67 YRFBHFQTDLFRESHHLVLPFATVLNCINPLRSRSLTNDLHWAGSALLGLDP---PAE 121
 Db 67 YFSYQHWTKVDEVAQSLVFPATVLNCINPLRSRSLTNDLHWAGSALLGLDP 126
 Query 122 HAA---PFLRGLRGPAPPGMPSPTDMAQLYARAGHSDDMLLDRFRGPGCPGENFTI 178
 Db 127 HLADPSLLEALRQKANFHYPKP-QFSMILEFLHRGHDLMYCKFGQECGHQDFIT 185
 Query 179 IFTRMGKCYTFNSGADGAELLTTRGGMGNGLDIMDVQQEYLPWQDMETPPEVGIR 238

Db 387 KDQEYCVCEMPCNLTRYGIEBLSMVKPSKASAYLAKPKNSSEQYIGENILVLDIFFEVL 446
 Qy 419 NYETVEOKAYEMSLLIGGOMGLPIGASLTILELIDLCVFRDKVULGYFWNRQHS 478
 Db 447 NYETVEOKAYEIAGLGLIGGOMGLPIGASLTILELDFAYEVTKHRLC---RGKIC 502
 Qy 479 QRAHSTNLQEGLGSHRTQVPHLSLGPPPTPPC 512
 Db 503 QKEAKRSSADKGVA-----LSLDDVKRHNPC 528

RESULT 6
 US-09-360-197-2
 Sequence 2, Application US/09360197
 Patent No. 6287859
 GENERAL INFORMATION:
 APPLICANT: Bassilana, Frederic
 APPLICANT: Lazdunski, Michel
 APPLICANT: Waldmann, Rainer
 APPLICANT: Dewelle, Jan R.
 TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive Cationic Channels, Their Cloning and Applications
 FILE REFERENCE: 989-6706P
 CURRENT APPLICATION NUMBER: US/09/360,197
 PRIORITY FILING DATE: 1997-07-23
 PRIORITY NUMBER: US/09/360,197
 PRIORITY NUMBER: 09/129,758
 PRIORITY NUMBER: 60/095,408
 CURRENT FILING DATE: 1998-08-05
 PRIORITY NUMBER: 09/129,758
 PRIORITY NUMBER: 60/095,408
 NUMBER OF SEQ ID NOS: 22
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 526
 TYPE: PRT
 ORGANISM: rattus sp.
 US-09-360-197-2

Query Match Score 46.6%; Score 1329; DB 3; Length 526;
 Best Local Similarity 49.5%; Pred. No. 1.3e-123; Indels 56; Gaps 8;
 Matches 257; Conservative 79; Mismatches 127;

Query Match Score 46.6%; Score 1329; DB 3; Length 526;
 Best Local Similarity 49.5%; Pred. No. 1.3e-123; Indels 56; Gaps 8;
 Matches 257; Conservative 79; Mismatches 127;

QPSDIRVAFNSCSMFMGHGLHYFGPGSLSLRGMWAAAVLSVATEFLYQVAERVYYREPHI 72
 QPVSIQFASSSTLGAHAFSYERSLSKRALWALCFLGAVLCLCVTERQYFCYTH 73

QPSDIRVAFNSCSMFMGHGLHYFGPGSLSLRGMWAAAVLSVATEFLYQVAERVYYREPHI 72
 QPVSIQFASSSTLGAHAFSYERSLSKRALWALCFLGAVLCLCVTERQYFCYTH 73

QY 13 QPSDIRVAFNSCSMFMGHGLHYFGPGSLSLRGMWAAAVLSVATEFLYQVAERVYYREPHI 72
 DB 14 QPVSIQFASSSTLGAHAFSYERSLSKRALWALCFLGAVLCLCVTERQYFCYTH 73

QY 13 QPSDIRVAFNSCSMFMGHGLHYFGPGSLSLRGMWAAAVLSVATEFLYQVAERVYYREPHI 72
 DB 14 QPVSIQFASSSTLGAHAFSYERSLSKRALWALCFLGAVLCLCVTERQYFCYTH 73

QY 73 QPALDEBESHLVFPATVLCNINPLRSRSLTPNDLHWAGS---ALIG---- 116
 DB 74 VTKLDEVAASQSLTFPATVLCNLNREFPSQVSNDLYHAGFLLAUNNRYEIPDTQMDBK 133

QY 117 -LDPAAHAFRALGRPPAPPGFMSPPFTDMAQLYARAGHSLDMMLDRFRGPGCBEN 175
 DB 134 QLEILQDKNARS-----EYKRP-FNMRFPYDRAISDIRMLLSCHFGEACSAED 183

QY 176 FTIIFPRMGKCYTNSGADGAEELLTTGGNGLNDIMDVOQQEYLFWRDNEETPPEV 235
 DB 184 FKVVFTRYGKCYTNSGQDRGRPLKTMKGTTGNGLEIMLDIQQDEYLFWGETDETEA 243

QY 236 GIRVQTHSQEBPPIIDQGLGVSPGQTYFTVSCOCOOLSTLPPNGDCSSASLNPYEPBP 295
 DB 244 GIKVQIHSQDPPPFDQLGGVPAFQTFSCQERLITLPSPGTCNAVIMDSDF---- 299

QY 296 SDPLGSPPSPSPSPSPPTLMGCCRLAECTRYARKCGCRMTYMPGDYVPSPOQYKNCAPAI 355
 DB 300 -----FDSLTSITARIDCTRYVENCNCRMTYMPGDYVPSPOQYKNCAPAI 348

QY 356 DAILRKDS--CACPNPCASTRYAKELSMTRIPSRAARFLARKLNRSAYIAENYALDI 413
 DB 349 DFLVERDQBYCVCENPCNUTRYGKELSMTRIPSRAARFLARKLNRSAYIAENYALDI 408

QY 414 FPEALNYETEQKAYEMSELJGIGGOMLGIGASLTLILEDYLCVFRDKVUGYFW 473
 DB 409 FFEVINYETEQKAYEIAQGLGIGGOMLGIGASLTLILEDYLCVFRDKVUGYFW 464

Qy 474 NRQHSRHSSTNLQEGLGSHRTQVPHLSLGPPPTPPC 512
 Db 465 RRGCCQKEAKRSSADKGVA-----LSLDDVKRHNPC 495

RESULT 7
 US-09-360-197-4
 Sequence 4, Application US/09360197
 GENERAL INFORMATION:
 APPLICANT: Bassilana, Frederic
 APPLICANT: Lazdunski, Michel
 APPLICANT: Waldmann, Rainer
 APPLICANT: Dewelle, Jan R.
 TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive Cationic Channels, Their Cloning and Applications
 FILE REFERENCE: 989-6706P
 CURRENT APPLICATION NUMBER: US/09/360,197
 CURRENT FILING DATE: 1997-07-23
 PRIORITY APPLICATION NUMBER: 09/129,758
 PRIOR FILING DATE: 1998-08-05
 PRIORITY NUMBER: 60/095,408
 NUMBER OF SEQ ID NOS: 22
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 4
 LENGTH: 514
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-360-197-4

Query Match Score 46.3%; Score 1319; DB 3; Length 514;
 Best Local Similarity 49.2%; Pred. No. 1.2e-122; Indels 54; Gaps 8;
 Matches 255; Conservative 80; Mismatches 129; Indels 54; Gaps 8;

Qy 14 PSDIRVAFNSCSMFMGHGLHYFGPGSLSLRGMWAAAVLSVATEFLYQVAERVYYREPHI 73
 DB 1 PUYSIQFASSSTLGAHAFSYERSLSKRALWALCFLGAVLCLCVTERQYFCYTH 60

Qy 74 TAIDERBESHLVFPATVLCNINPLRSRSLTPNDLHWAGS---ALIG---- 116
 DB 61 TKLDEVAASQSLTFPATVLCNLNREFPSQVSNDLYHAGFLLAUNNRYEIPDTQMDBK 120

Qy 117 LDPAEHAAFLAIGRPPAPPGFMSPPFTDMAQLYARAGHSLDMMLDRFRGPGCBEN 176
 DB 121 LBILQDANFS-----FKRP-FNMRFPYDRAISDIRMLLSCHFGEACSAED 170

Qy 177 TTIFTRMGKCYTNSGADGAEELLTTGGNGLNDIMDVOQQEYLFWRDNEETPPEV 236
 DB 171 KVVFTRYKCYTNSGGRPLKTMKGTTGNGLEIMLDIQQDEYLFWGETDETEA 230

Qy 237 IRQVTSQEEPPPIIDQGLGVSPGQTYFTVSCOCOOLSTLPPNGDCSSASLNPYEPBP 296
 DB 231 IKVQIHSQDPPPFDQLGGVPAFQTFSCQERLITLPSPGTCNAVIMDSDF 290

Qy 297 DPLGSPPSPSPSPPTLMGCCRLAECTRYARKCGCRMTYMPGDYVPSPOQYKNCAPAI 356
 DB 291 -----YSITACRIDCTRYVENCNCRMTYMPGDYVPSPOQYKNCAPAI 337

Qy 357 AILRKDS--CACPNPCASTRYAKELSMTRIPSRAARFLARKLNRSAYIAENYALDI 414
 DB 338 PLVEDQBYCVCENPCNUTRYGKELSMTRIPSRAARFLARKLNRSAYIAENYALDI 397

Qy 415 FEALNYETEQKAYEMSELJGIGGOMLGIGASLTLILEDYLCVFRDKVUGYFW 474
 DB 398 FEVINYETEQKAYEIAQGLGIGGOMLGIGASLTLILEDYLCVFRDKVUGYFW 453

Qy 475 RQHSRHSSTNLQEGLGSHRTQVPHLSLGPPPTPPC 512
 DB 454 RRGCCQKEAKRSSADKGVA-----LSLDDVKRHNPC 483

US-09-360-197-12
 i Sequence 12, Application US/09360197
 i Patent No. 6387859

i GENERAL INFORMATION:

i APPLICANT: Bassilana, Frederic

i APPLICANT: Lazdunski, Michel

i APPLICANT: Waldmann, Rainier

i APPLICANT: Dewelle, Jan R.

i TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive

i FILE REFERENCE: Cationic Channels, Their Cloning and Applications

i CURRENT APPLICATION NUMBER: US/09-360,197

i PRIOR APPLICATION NUMBER: 09/129,758

i PRIOR FILING DATE: 1998-08-05

i PRIOR FILING DATE: 1998-08-05

i SOFTWARE: PatentIn Ver. 2.1

i SEQ ID NO: 12

i LENGTH: 563

i ORGANISM: *rattus* sp.

i PCTO ID: US-09-360-197-12

i APPLICANT: Huvar, Rene
 i APPLICANT: Pyati, Jayashree
 i TITLE OF INVENTION: DNA encoding human acid-sensing ion
 i FILE REFERENCE: ORT-1197
 i CURRENT APPLICATION NUMBER: US/09/518,959
 i NUMBER OF SEQ ID NOS: 9
 i SOFTWARE: PatentIn Ver. 2.1
 i SEQ ID NO: 8
 i LENGTH: 539
 i TYPE: PRT
 i ORGANISM: *Homo sapiens*
 i US-09-518-959-3

Query Match 41.4%; Score 1180; DB 4; Length 539;
 Best Local Similarity 49.8%; Pred. No. 9.4e-109;
 Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

Qy 14 PSDTRPVASNCMNGLGHVFGPQSLURGKMAAVLVSATFLYQAERVRYREFHHQ 73
 Db 39 PRODUTPASTLHGFLGACPGHGRRTWALALTSAAFLYDAAGIARGVLTREHL 98

Qy 74 TALDEREHSRLV_FPAVLCNINPLRSLRPNDL_HWAGSALLGIDPAEAFAFLRGL 131
 99 VAMPAPAPAVAGFPAVLCNINREFSALSADITHLAN_-LTGPJPPORDGHRAGLR 156

Qy 132 PFAFPGEMSPPTFDMAQLYARAGHSIDDDMLDCRFQCPGENFTTI_FTRMGKCYTFNS 191
 Db 157 YPEP-----DMVDILNRTQHQALDMKLSCNFQHCSASNFSVVTYRGKCYTFN- 206

Qy 192 GADGAELITTTGGMGNGLDIMDVQBEYLFWRDNEETPFVGIRVOQTHSQEPPPIID 251
 Db 207 -ADPRSSLESRAGMGSGLBIMDIQBEYLPIWRETNETSFEAGIRVQIHSQEEPYIH 265

Qy 252 QLGHPSPGYQTFTVSCQQQQLSFLPPWGDSASASLNPNVYEPSPSPSPSPSPYPT 311
 Db 266 QLGHPSPFQTIVSCQEQRUTYLQPWGNCRAB-----ELREBELQGYSAYS 314

Qy 312 LMGRFLAETRYTARKGCQCRMVYMPGDVVPYCSPQQYKNCNAHPAIDAI--LRKDSCACPNP 369

Db 315 VSARLRLCEKEATLQRCHCRATHPMGNETICCPNITECAHTDLGGGEQPCPCTP 374

Qy 370 CASTRYAKELSMYRTRIPSRAARFLARKLNRSRAYENVLAIDLIFEAALNYETECKKAY 429
 Db 375 CNLTRYKEISMYTRIPNRGSAARLARYNRNETYIRENFVLFVDEPEALTSEAMORAAV 434

Qy 430 EMSLLGDLGGONGLFIGASLITLELDYLCEVFDKVULGYFWDRQHSQRHSSSTMLLQE 489

Db 435 GLSALLGDLGGONGLFIGASLITLELDYIYEVSMDR-LKRVWRRLPKTPLTSTCGIST 493

Qy 490 -GLSLLRHTOYPHSLG 504

Db 494 LGLQELKEQSPCPFSLG 509

RESULT 10
 US-09-518-959-9
 ; Sequence 9, Application US/09518959
 ; Patent No. 6348270
 ; GENERAL INFORMATION:
 ; APPLICANT: Lubin, Adrienne E
 ; APPLICANT: Erlander, Mark G
 ; APPLICANT: Huvar, Rene
 ; APPLICANT: Pyati, Jayashree
 ; TITLE OF INVENTION: DNA encoding human acid-sensing ion
 ; FILE REFERENCE: ORT-1197
 ; CURRENT APPLICATION NUMBER: US/09/518,959
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 9

RESULT 9
 US-09-518-959-8
 ; Sequence 8, Application US/09518959
 ; Patent No. 6348270
 ; GENERAL INFORMATION:
 ; APPLICANT: Dubin, Adrienne E
 ; APPLICANT: Erlander, Mark G

LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-518-959-9

Query Match 41.2%; Score 1174; DB 4; Length 539;
Best Local Similarity 49.6%; Pred. No. 3.7e-10;
Indels 30; Gaps 9;
Matches 246; Conservative 38; Mismatches 162; Score 1174; DB 4; Length 539;
Best Local Similarity 49.6%; Pred. No. 3.7e-10;
Indels 30; Gaps 9;

Qy 14 PSDIRVFAINSNCMGLGHVFGCSSLURGMWAAAVLSVATFLXVAERTRYREFHQQ 73
Db 39 PRDLATEASTSTLHGGRACGCPGPHGLRTWLWALLTSLAFLYQDAGLARYLTPHL 98
Qy 74 TALDRESRILV-PAVTLCNINFLRLRLTPNDL-IWASAILGLDPAEAHAFLALGR 131
Db 99 VAMPAAAPAVPAGPAPVILCNINFRHALSDAPIHLAN-LTGGLPKRDGHRAGLR 156
Qy 132 PPAPRGFMSPPTEDMAQLYARAGHSLLDDMLDCRFRGQPCGPENFTITFTRMKCYTENS 191
Db 157 YPEP-----DMVDLILNTRTHQLAHLKLSNFNSHCSNSNFVYTYGCKYTEN- 206
Qy 192 GADGAELLITTRGGMGNSLDIML-DVCOQEPEYLPIWDRNBETPEEVGIRVOIHSQEERPIID 251
Db 207 -ADPRSSLSERAGGMGSGEIMDIOQEPEYLPIWRETNTESEAGIRVOIHSQEERPYH 265
Qy 252 QIGIGVSSQYQTEVSCQQQISLPPWGDCSSASINPNYEPSPSPPYT 311
Db 266 QLGFGVSPSFQETVSQCEQRQLTLPQWGNGRAES-----ELRPEELQGYSAYS 314
Qy 312 LMCRLAETTRYARKCCRMVYMPGDVPCSPQYKNCAPAIAD----LRKDSACPNP 369
Db 315 VSACRLREKEAVLQRCHCRMHPGNETICPPNTILECARHTLISLGGEPEGFCPFP 374
Qy 370 CASTRYAKELSMYRIPSRAARFLARKLNRSAYIAENVIALDIFFEALNYETVBEQKRAY 429
Db 375 CNLTRYKEISMYRIPFGSARYLARYNRNEYIRENFLVLDVEEAUTSEAMEQRAY 434
Qy 430 EMSELGDIGGONGLFIGASLITTLELDYLCIEVFDKVLGYFMHQSBHSSSTNLLE 499
Db 435 GUSALLGDGGONGLFIGASLITTLELDYIYEVSMDR-LKRVWWRPKTLRSTGGTIST 493
Qy 490 -GLGSHRTQPHLSLG 504
Db 494 LGIQLEKEQSPCPSRG 509

RESULT 11
US-09-360-197-15
Sequence 15, Application US/09360197
Patent No. 6287859

GENERAL INFORMATION:
; APPLICANT: Bassilana, Frederic
; APPLICANT: Izdunski, Michal
; APPLICANT: Waldmann, Rainer
; APPLICANT: Dewelle, Jan R.
TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
FILE REFERENCE: 989-6706P
CURRENT APPLICATION NUMBER: US/09/360,197
CURRENT FILING DATE: 1997-07-23
PRIOR APPLICATION NUMBER: 09/129,758
PRIOR FILING DATE: 1998-08-05
PRIOR APPLICATION NUMBER: 60/095,408
PRIOR FILING DATE: 1998-08-05
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 625
TYPE: PRT
ORGANISM: Helix aspersa
US-09-360-197-15

Query Match 14.7%; Score 419; DB 3; Length 625;

Best Local Similarity 22.2%; Pred. No. 8.6e-33;
Matches 136; Conservative 99; Mismatches 191; Indels 186; Gaps 20;

Qy 17 IRVFASNCMGLGHVFGCSSLURGMWAAAVLSVATFLXVAERTRYREFHQQ 76
Db 43 IAELSESNAHGLAKTVTSRD-TIKRKIVALLYAGFTAATLQLSLIYRKYLQFQVYELS 101
Qy 77 DERESHRLVPAVTLCNINP----LRR---SRAITPDNLHWAGSALLGLDPAAHAFLRA 128
Db 102 EIKDMSMPVQYPSVSYTCNIEPISLRTIRMYENNEQNOLITWL-RFIQKRFQDSEFNNS 159
Qy 129 LGRPPAPPGFMPSPTF--DMAQLYARAGHSLLDDMLDCRFRGQPCGPENFTITF-RMGK 185
Db 160 I-----RAFYENLQDAKKLHNLDMLMHRFNRELCHVSNFSFDFGNYFN 207
Qy 186 CYTFNSGADGAEELLTTRGGMGNCGLDMLDVQOBEYLP---WVRDNEETPPEVGIRVQI 241
Db 208 CPTFNSG---QRLQMZHATGPENGSSLISFVSERDPL-LGTGTYGVNFNNLHSAGYRVVV 263
Qy 242 HSQEPEPPIIDQLGIGVSSQYOTVSCQQQISLPPWGDCSSASLN-PNYPEPESDPL 299
Db 264 HAPGSSMSPSPVHDGIDIPPCYSSVGLAIIHLRPyGNCNTNDMINGIKOYK----- 316
Qy 300 GSPSPSPSPPPYTLMGCRLAETTRYARKCGCERNVMTMGDVP----- 340
Db 317 -----YTFPACHQLCRKQLRIIQRGCKSSALB-EVPSYNATTGCVIKDQWQEINRN 365
Qy 341 -----VCSPOQYKNCAPAHADAILRKD---SCAPNPCASTR 374
Db 366 HSNEDHQNSEEDEAIFIPTPYLACEERQKN-----LNNDRTYELSGCGFQPOSETS 416
Qy 375 YAKELSWYRIP-----SRAIAAFFLARKLNRSAYIA----- 405
Db 417 YLKSVSLSYWPYLEFYQSAVERFFKQERQAGONHFMKTALEYLAHPSKHLARNDSH 476
Qy 406 -----ENVLALDIFFALANVETVEQKAYEMSELLGIGG 440
Db 477 MDILSKSYSLSERKEMAREASLIRONMLRINTYLDLSVWEYRQLPAYGLADLADIGG 536
Qy 441 QMGLFIGASLITTLELDYLCIEVFDKVLGYFMHQSBHSSSTNLLE 440
Db 537 TIGLWMGKSTWMTIMEELV1---RLTGLVFNSEKGPRGPTVNNNNNSNNHSQ-ST 590
Qy 493 SMLIQSGLSH 494
Db 591 SQHQLYNGYMDH 602

RESULT 12
US-09-360-197-15
Sequence 20, Application US/09360197
Patent No. 5633756

GENERAL INFORMATION:
; APPLICANT: Li, Xiao-Jiang
; APPLICANT: Blackshaw, Seth
; APPLICANT: Snyder, Solomon H.
; APPLICANT: Title of Invention: AMILORIDE-SENSITIVE SODIUM CHANNEL AND
; TITLE OF INVENTION: METHOD OF IDENTIFYING SUBSTANCES WHICH STIMULATE OR BLOCK
; TITLE OF INVENTION: SALTY TASTE PERCEPTION
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, LTD
; STREET: 1001 G Street, N.W., Eleventh Floor
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatientIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/376,362A
FILED DATE: 23-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kagan A./Sarah
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.48125
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202 508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 698 amino acids
TYPE: amino acid
TOPOLOGY: Linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE: Rattus rattus
ORGANISM: Rattus rattus
US-08-376-362A-20

Query Match 6 GPE-EARPOSD- Score 14.7%; Best Local Similarity 23.1%; Matches 148; Conservative 96; Indels 236; Gaps 21; Score 418.5; DB 1; Length 698; Prd. No. 1.1e-32; Mismatches 96; Gaps 21;

Qy 57 GPPESAPRQPTEEEAELIEFHRSYREL-QFFCNCNTTIGHAIRLVCNSKHNRTAFWA-- Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Score 403; DB 3; Length 564; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 58 VLSVATFLQVAEVRVYPREP-IHQTAID-ERESSHLRYPAVTLCNINPLRSRL--- Query Match 50 VLSVATFLQVAEVRVYPREP-IHQTAID-ERESSHLRYPAVTLCNINPLRSRL--- Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 59 QVAERY-RVYRE---- Query Match 51 SGPEEARROPSDIRV---- Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 60 TNDLHWGSAALLGDPAEHAAFRALGRGPAPPGFMPSPFTDMAQLYARAQ 154 Query Match 103 TNDLHWGSAALLGDPAEHAAFRALGRGPAPPGFMPSPFTDMAQLYARAQ 154 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 61 ELDRTEQFLPKYNSSYTRQAAGRSSRDLQAGPHPLQLRIPPPPSGRARS 233 Query Match 174 ELDRTEQFLPKYNSSYTRQAAGRSSRDLQAGPHPLQLRIPPPPSGRARS 233 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 62 HS----- Query Match 155 HS----- Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 63 SSSYRDNNQVDKDWKGQLCNQNKSDCPQTYSSGVDAREWTFHYINILSRLSDT 293 Query Match 234 SSSYRDNNQVDKDWKGQLCNQNKSDCPQTYSSGVDAREWTFHYINILSRLSDT 293 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 64 1DDMLIDCRFQPGOPENFTIPEM-GKCYTENSGDAGEELTTTRGGMG 207 Query Match 157 1DDMLIDCRFQPGOPENFTIPEM-GKCYTENSGDAGEELTTTRGGMG 207 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 65 SPALBEEAGNFIFTCRNQAPNQANTSKFHFMGNCTEND-KANSNLWMSMEGVN 352 Query Match 294 SPALBEEAGNFIFTCRNQAPNQANTSKFHFMGNCTEND-KANSNLWMSMEGVN 352 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 66 NGDIMILDWQCEQKLYPIWDNEETPPEVGIROQHSQEPPPIIDOLGLGVSPGYQTEVSC 267 Query Match 208 NGDIMILDWQCEQKLYPIWDNEETPPEVGIROQHSQEPPPIIDOLGLGVSPGYQTEVSC 267 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 67 NGSLSTLTRLTQNDTIPL----LSTYTGARYNVHGDQPAFDMDGCFNLRGVETISM 406 Query Match 353 NGSLSTLTRLTQNDTIPL----LSTYTGARYNVHGDQPAFDMDGCFNLRGVETISM 406 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 68 QQQSLSFLEPPWDGDSASLNPYEPPESSPSSPSSPPTLMSCRLACETRYARK 327 Query Match 266 QQQSLSFLEPPWDGDSASLNPYEPPESSPSSPSSPPTLMSCRLACETRYARK 327 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 69 RKEALDSLGGNYGDCT----ENGSDVPVKNLPSY--KTYTQQVCIHSQFOENMIKK 455 Query Match 407 RKEALDSLGGNYGDCT----ENGSDVPVKNLPSY--KTYTQQVCIHSQFOENMIKK 455 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 70 CGCRRMVY--MPGDVPVCSFQQ----YKNGAHPAIDAIIRLKSDC--ACPNCPCSTRY 375 Query Match 328 CGCRRMVY--MPGDVPVCSFQQ----YKNGAHPAIDAIIRLKSDC--ACPNCPCSTRY 375 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 71 CGAYIYFPKPGYEFCDYKQSSWGYCYKLOGAFSLSDL----GCFSKCRKPCSVINY 511 Query Match 456 CGAYIYFPKPGYEFCDYKQSSWGYCYKLOGAFSLSDL----GCFSKCRKPCSVINY 511 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 72 KLSAGYSRMPVPSQKSDWFEPMISLQANNYVINNERGVAKLNPFKEIINYKTNSESPVYM 571 Query Match 376 KLSAGYSRMPVPSQKSDWFEPMISLQANNYVINNERGVAKLNPFKEIINYKTNSESPVYM 571 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 73 SEIJDIGGQMGFLIGASLITTLEILDYCEV----FRDKVLYGYFWNRQHSQR 480 Query Match 432 SEIJDIGGQMGFLIGASLITTLEILDYCEV----FRDKVLYGYFWNRQHSQR 480 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 74 VSLLSNLGQSWSLMEGSSVLSVEMADYIFDLIVITMLLRLFRFRSR---YWSGRGRAR 627 Query Match 572 VSLLSNLGQSWSLMEGSSVLSVEMADYIFDLIVITMLLRLFRFRSR---YWSGRGRAR 627 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 75 HSSTNLLOEGLGSRHTQPHISLGPRTPPCAVT 515 Query Match 481 HSSTNLLOEGLGSRHTQPHISLGPRTPPCAVT 515 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

Qy 76 GAREVASTPSSFSRSCHESTSPP-SLPQQGNTMPLALT 667 Query Match 628 GAREVASTPSSFSRSCHESTSPP-SLPQQGNTMPLALT 667 Score 14.1%; Best Local Similarity 26.6%; Matches 139; Conservative 182; Indels 128; Gaps 22; Prd. No. 2.9e-31; Mismatches 182; Gaps 22;

RESULT 14
519633-4
Patent No. 519633-4

GENERAL INFORMATION:
APPLICANT: Bassilana, Frederic
APPLICANT: Lazdunski, Michel
APPLICANT: Waldmann, Rainer
APPLICANT: Dewelle, Jan R.
TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive Cationic Channels, Their Cloning and Applications
FILE REFERENCE: 989 6706P
CURRENT APPLICATION NUMBER: US/09/360,197
CURRENT FILING DATE: 1997-07-23
PRIOR APPLICATION NUMBER: 09/129,758
PRIOR FILING DATE: 1998-08-05
PRIOR APPLICATION NUMBER: 60/095,408
PRIOR FILING DATE: 1998-08-05
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
TYPE: PRT
ORGANISM: C. elegans
FEATURE:
NAME/KEY: SITE
LOCATION: (180)
OTHER INFORMATION: xaa represents 207 non-disclosed amino acids
US-09-360-197-16

Query Match 5 SGPEEARROPSDIRV----FASNCSMHGHIGHVFGPGSLSLRRGMMWAAAVVLSTATFLY 58
Qy 66 TGBFDKLPLPDKRLAWHFKEPFCYTKSAHG--PMGEAPAVVYRAW-VNLFLGNTIMLY 123
Qy 67 LNAQSTLDKYNRNEKIVDQLQFKFDIA----PPFATILCNINPNYRASLATSVDLV 174
Qy 68 124 LNAQSTLDKYNRNEKIVDQLQFKFDIA----PPFATILCNINPNYRASLATSVDLV 174
Qy 69 QVAERY-RVYRE----RHQTALDPRSHSLVFPATLCLNINPLRSRLTPNDL- 107
Db 70 125 KRTLSKEIW--TYLOGGTPEPDPELTEAMG-----QLYAR 152
Db 71 126 AGHSLDD----MLLDCRFRQPGCEN--FTTIIFTRMGKXCFTFNSGADGAELLT 200
Db 72 225 ATLSKMDRERLSTTKBLVKCSENGKACDIEADFTTHDPVGSOFTENTH--NBTVNLT 282
Db 73 201 TTRGGMNGNGLIMLDVQOEELYPVWNRDNNEETPFEYGVIRQHSQEPPPIIDQLGLGVSPG 260
Db 74 283 STRAGGMYGLMLVYNTASDMP-----TTEATGVRLLTHDKEDFPFPDTFGYSAPTG 335
Qy 75 261 YQTFVSQCCQQQLSFLPPWGDC----SSASLNPYVEPEBDPLGSPSPSPSPPTLMGC 315
Db 76 336 YVSSEGRJLRLRNSRLRABPYGCVPDERTSDIYSNE-----YSEVEGC 376
Qy 77 316 RIACETRYARKCGCMLVMNGDVCPSPQYKNCAPHAIDALRK--DS-----
Db 78 379 YRSFCFQLVTKRCR-----GDPRFVPEGARHC--DAADPVARCLDRMNDLGGLHG 430
Qy 79 364 --CACNPNCASTRYAKELSNVRIPSRA----ARFLARKLNESEAYTAENLALDIF 414
Db 80 431 SFRCRQOPCCQSIYVTVYSPAKWBLSQIQLQSGNTGATEVCKN--
Qy 81 415 FEALNVTVEORKAYMSELLGDIGQMGLFIGASLTTILEIL 457
Db 82 488 YEQLNFMLTESEAICFVNLLADFGQQLGWCGLSFLTCCEFBV 530
Qy 83

TITLE OF INVENTION: DNA SEQUENCES INVOLVED IN NEURONAL
DEGENERATION, MULTICELLULAR ORGANISMS CONTAINING SAME AND USES

NUMBER OF SEQUENCES: 11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/530, 968
FILING DATE: 30-MAY-1990
SEQ ID NO: 4
LENGTH: 493

Query Match 12.0%; Score 342.5; DB 6; Length 493;
Best Local Similarity 27.2%; Pred. No. 2.5e-25; Gaps 14;
Matches 106; Conservative 58; Mismatches 135; Indels 91; Gaps 14;
Qy 114 LGILDPAEHAAFLRALGRPPAPPGMPSPDFDMA-----QLYARAGHSIDDD---- 159
Db 115 LGQSTPTEPDNPNEAMG-----FQGMNTDEVAVTKAKENIMFAMATSMQDRERLST 166
Qy 160 ---MLLDGERFRGPNCPPN---TTTIFRMRGKCYTENSGADAEELTTTRGMGNGLDIM 213
Db 167 TKRELVHCSFNSKGACDIAEFLTHIDPAFGSCPTFWH-NRTVNILTSIRAGPMYGLRML 224
Qy 214 LDVQEEEYLPLWWRDNEETPFEGVIRVOIHSQEPEPPLIDQLGLGVSPYOTFVSCQQQLS 273
Db 225 VTVNASDMP-----TTEATGVRLTHDKDFPDTFGSAPTPGYVSFGDLRKMS 277
Qy 274 FLPPPWGDC-----SSASLNPNEYEPEDPSDPLGSPSPSPSPSPYPTLMSGLCRLACTRYARKC 328
Db 278 RLPAyPGDyGDPDGKTSdyISVNE-----YSVEGCGYRSFQQLVKEC 320
Qy 329 GCRMVVMGDyPVCSQPYKRNCAHPAIDALK--DS-----OACPAFCAST 373
Db 321 RC-----GDPRPVPENARHC--DAADPIARKCLDARMNDLGLLHGSSFRCRQCOPCRQS 372
Qy 374 RYAKELSMVRIPSR-----AARFLARKLNRSEAYTAENVLALDFFEALEYTYEQRK 427
Ds 373 IYSVTYSFAKWPBLSQIQLGSNCNGTAVECMK--HYKENGAMVVEYEQINFEMTE 429
Qy 428 AYEMSELIGDQGQMGFLGIASTLTILE 457
Db 430 AYGFVNLLADFGSQLGLWCGISFLTCCEFV 459

RESULT 15
US-07-861-458C-99
Sequence 99, Application US/07861458C
GENERAL INFORMATION:
APPLICANT: Marchionni, Mark Andrew
TITLE OF INVENTION: Homology Cloning
NUMBER OF SEQUENCES: 142
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/530, 968
FILING DATE: 30-MAY-1990
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:

NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 04585/014001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 755
TYPE: amino acid
TOPOLOGY: linear
US-07-861-458C-99

Query Match 12.0%; Score 341.5; DB 3; Length 755;
Best Local Similarity 26.9%; Pred. No. 6.1e-25;
Matches 105; Conservative 61; Mismatches 133; Indels 91; Gaps 14;
Qy 114 LGILDPAEHAAFLRALGRPPAPPGMPSPDFDMA-----QLYARAGHSIDDD---- 159
Db 377 LGQSTPTEPDNPNEAMG-----FQGMNTDEVAVTKAKENIMFAMATSMQDRERLST 428
Qy 160 ---MLLDGERFRGPNCPPN---TTTIFRMRGKCYTENSGADAEELTTTRGMGNGLDIM 213
Db 429 TKRELVHCSFNSKGACDIAEFLTHIDPAFGSCPTFWH-NRTVNILTSIRAGPMYGLRML 224
Qy 214 LDVQEEEYLPLWWRDNEETPFEGVIRVOIHSQEPEPPLIDQLGLGVSPYOTFVSCQQQLS 273
Db 487 VYNASDNP-----TTEATGVRLTHDKDFPDTFGSAPTPGYVSFGDLRKMS 539
Qy 274 FLPPPWGDC-----SSASLNPNEYEPEDPSDPLGSPSPSPSPYPTLMSGLCRLACTRYARKC 328
Db 540 RLPAyPGDyGDPDGKTSdyISVNE-----YSVEGCGYRSFQQLVKEC 582
Qy 329 GCRMVVMGDyPVCSQPYKRNCAHPAIDALK--DS-----OACPAFCAST 373
Db 583 RC-----GDPRPVPENARHC--DAADPIARKCLDARMNDLGLLHGSSFRCRQCOPCRQS 372
Qy 374 RYAKELSMVRIPSR-----AARFLARKLNRSEAYTAENVLALDFFEALEYTYEQRK 427
Db 635 IYSVTYSFAKWPBLSQIQLGSNCNGTAVECMK--HYKENGAMVVEYEQINFEMTE 429
Qy 428 AYEMSELIGDQGQMGFLGIASTLTILE 457
Db 692 AYGFVNLLADFGSQLGLWCGISFLTCCEFV 721

Search completed: August 25, 2004, 13:01:25
Job time : 36 secs